



Wireless Dimmer Installation Guide

Supported Models

- LDZ-102-W Wireless Dimmer (White)
- LDZ-102-B Wireless Dimmer (Black)
- LDZ-102-A Wireless Dimmer (Almond)




Specifications and Supported Fixtures




This Control4® Wireless Dimmer operates independently or as part of a Control4® home automation system to enable intelligent lighting control. It installs in a standard wall box using typical wiring standards and communicates with other devices through a wireless RF (radio frequency) connection.

Power:	120 VAC +/-10% 50/60 Hz 1.49 W—LEDsOff 1.77 W—LEDs On
Supported Load Types and Ratings:	120 VAC 1000 W Incandescent (all types) 120 VAC 1000 W Halogen (all types) 120 VAC 1000 W Forward Phase Controlled Electronic Low Voltage (dimmable only) 120 VAC 1000 W Forward Phase Controlled Fluorescent Light Fixtures (dimmable only) 120 VAC 1000 VA Forward Phase Controlled Magnetic Low Voltage (all types with 70 percent or greater load factor) Total minimum load must exceed 25W This device can function with or without a neutral AC connection (see relevant wiring diagrams). However, when controlling Magnetic Low Voltage loads, a neutral wire connection is required. All load ratings are based on an ambient temperature of 25 degrees Celsius.
Operating Temperature: Volume:	5.0 Cubic inches


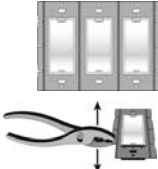
Communications: ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel, spread spectrum radio

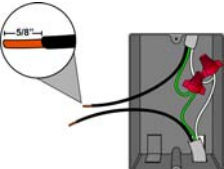
Warnings & Considerations



- **WARNING!** Risk of Electric Shock. Install in accordance with all regional, national, and local electrical codes.
AVERTISSEMENT : Risque de Décharge électrique. Installez conformément à tous des codes électriques régionaux, nationaux et locaux.
- **WARNING!** Risk of Serious Injury, Death, or Property Damage or Loss. Install and use properly—as described in this document—to avoid danger of injury, death, or property damage or loss.
PRÉVENANT : le Risque de Blessure Sérieuse, Mort, ou Dommage de Propriété ou Perte. Installez et utilisez correctement comme décrit dans ce document — pour éviter le danger de blessure, mort, ou dommage de propriété ou perte.If you are unsure about any part of these instructions, consult a qualified electrician.
- **WARNING!** Risk of Serious Injury, Death, or Property Damage or Loss. If you are unsure about any part of these instructions, consult a qualified electrician.
PRÉVENANT : le Risque de Blessure Sérieuse, Mort, ou Dommage de Propriété ou Perte. Si vous êtes peu sûrs d'une partie de ces instructions, consultez un électricien qualifié.To reduce the risk of overheating and possible damage to this device and other equipment, DO NOT install to control a receptacle, a motor, or a transformer-operated appliance.
- **CAUTION!** Risk of Overheating. To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, or a motor-operated appliance.
PRUDENCE : Risque du fait de surchauffer. Pour réduire le risque du fait de surchauffer et du dommage possible à d'autre équipement, n'installez pas pour contrôler un réceptacle, ou un appareil opéré de moteur.
- **WARNING!** Risk of Electrical Fire. Use this device only with copper or copper clad wire. Do not use aluminum wiring. This product has not been approved for use with aluminum wiring.
AVERTISSEMENT : Risque de Feu Électrique. Utilisez cet artifice seulement avec le fil habillé couleur cuivre ou couleur cuivre. N'utilisez pas d'installation électrique en aluminium. Ce produit n'a pas été approuvé pour l'utilisation avec l'installation électrique en aluminium

- **IMPORTANT!** This product generates heat during normal operation. IMPORTANT : Ce produit produit la chaleur pendant l'opération normale.
- **IMPORTANT!** Use or modification of this product in a manner not expressly approved by Control4 voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Limited 2 Year Warranty."
IMPORTANT : l'Utilisation ou la modification de ce produit dans une manière pas expressément approuvée par les vides Control4 votre garantie. De plus, Control4 n'est pas responsable pour aucun dommage encouru avec le mauvais usage de ce produit. Voir "Limited 2 Year Warranty."
- **IMPORTANT!** The range and performance of the wireless control system is highly dependent on the following: (1) distance between devices; (2) layout of the home; (3) walls separating devices; and (4) electrical equipment located near devices.
IMPORTANT : la gamme et la performance du système de contrôle sans fil dépendent hautement de la chose suivante : (1) la distance entre les artifice; (2) la disposition de la maison; (3) les murs séparant des artifice; et (4) l'équipement électrique se positionnait près des artifice.

Installation Instructions

- Turn OFF power by switching off the circuit breaker or removing the fuse and test that power is off before wiring!
- Ensure dimmer capacity matches the load requirements. In multi-dimmer installations, a reduction of the dimmer's capacity is required to allow the dimmers to be installed side-by-side in the same wall box. The dimmer capacity depends on the number "ganged" in the wall box as follows:
 - 1 gang = 1000 W / VA maximum
 - 2 gang = 800 W / VA maximum per dimmer
 - 3 or more gang = 600 W / VA maximum per dimmer

If installing in multi-gang scenarios, use pliers to remove the inner-side break-away tabs: Bend each one back and forth until it breaks off. Remove the inner-side tabs ONLY on any device side that will be adjacent to another device. DO NOT remove tabs on any side that will become the outer side of a group of devices.
- Identify your wiring application and see the appropriate diagram in "Sample Wiring Configurations."
 - Single-Location Scenario—Power Source at Wall Box
 - Single-Location Scenario—Power Source at Light Fixture
 - Two-Location Scenario—Power Source at Wall Box
 - Two-Location Scenario— Power Source at Light Fixture (on page 2)
- Prepare wires by removing pre-cut insulation from the appropriate dimmer leads. Wire insulation should be stripped back 5/8 of an inch from the wire end (as shown).
- Connect the dimmer wires to the wall box wires using wire nuts according to the relevant wiring diagram. See "Sample Wiring Configurations."

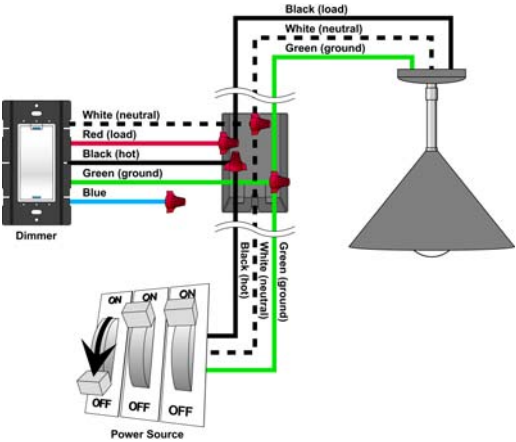
- **IMPORTANT!** The Blue wire is not a traditional traveler: It cannot directly power a lighting load. It must only be used to provide power to another Control4 keypad. If you do not intend to use this wire, leave it capped. The blue wire is a "switched hot" wire that is connected internally to the dimmer's hot wire through the air-gap switch. Power is applied to the blue wire whenever the air-gap switch is closed. Thus, the blue wire is used to provide power to downstream keypads in 3-way/4-way scenarios in order to ensure that all power to the load has been removed when the air-gap switch is open. See "Sample Wiring Configurations."
- IMPORTANT : le fil Bleu n'est pas un voyageur traditionnel : Il ne peut pas directement le pouvoir une charge prenante. Il doit seulement être utilisé pour fournir le pouvoir d'un autre pavé numérique Control4. Si vous n'avez pas l'intention d'utiliser ce fil, le quitter couronné. Le fil bleu est un "" fil chaud échangé qui est raccordé à l'intérieur au fil chaud du variateur par le changement de trou aérien. Le pouvoir est appliqué au fil bleu chaque fois que le changement de trou aérien est fermé. Ainsi, le fil bleu est utilisé pour fournir le pouvoir d'en aval les pavés numériques dans 3-way/4-way les scénarios pour garantir que tout le pouvoir de la charge a été enlevé quand le changement de trou aérien est ouvert. Faites allusion "Sample Wiring Configurations."
- Mount Dimmer into wall box by partially securing the wall box screws attached to the dimmer. Ensure that the word "Top" on the dimmer frame is facing up. Bend wires in a zigzag pattern so that they easily fold into the wall box.

Sample Wiring Configurations

Single-Location Scenario—Power Source at Wall Box

To wire the dimmer for a Control4 single-location scenario in which the power is first routed to the wallbox, connect together and cap with a wire nut the wires indicated in the following table:

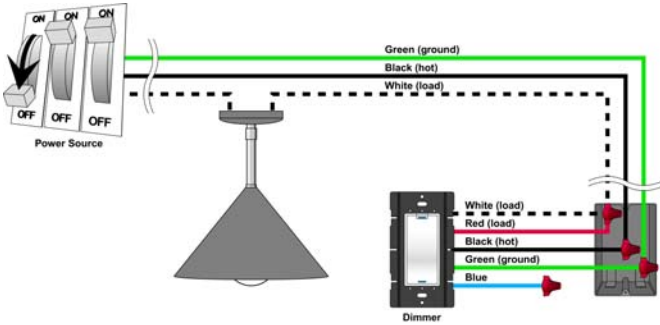
Dimmer Wires	Wires in the Wall Box	
	From Power Source	To Light Fixture
White (neutral)	White (neutral)	White (neutral)
Red (load)	None	black (load)
Black (hot)	Black (hot)	None
Green (ground)	Green (ground)	Green (ground)
Blue (switched hot)	None	None



Single-Location Scenario—Power Source at Light Fixture

To wire the dimmer for a Control4 single-location scenario in which the power is first routed to the light fixture electrical box, connect together and cap with a wire nut the wires indicated in the following table:

Dimmer Wires	Wires in the Wall Box (from the Light Fixture)
White (load)	White (load)
Red (load)	Black (hot)
Black (hot)	Green (ground)
Green (ground)	None
Blue (switched hot)	None



Two-Location Scenario—Power Source at Wall Box

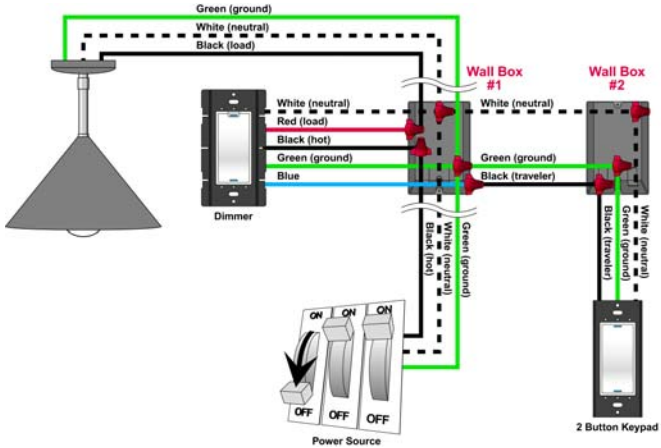
To wire the dimmer and a multi-button keypad in a two-location scenario (Control4's 3-way-switch solution) where the power is first routed to the wall box, do the following:

- Wire the dimmer into Wall Box #1 by connecting together and capping with a wire nut the following wires:

Dimmer Wires	Wires in Wall Box 1		
	From Power Source	To Light Fixture	To Wall Box 2
White (neutral)	White (neutral)	White (neutral)	White (neutral)
Red (load)	None	Black (load)	None
Black (hot)	Black (hot)	None	None
Green (ground)	Green (ground)	Green (ground)	Green (ground)
Blue (switched hot)	None	None	Black (traveler)

- Wire the multi-button keypad into Wall Box #2 by connecting together and capping with a wire nut the following wires:

Multi-Button Keypad Wires (2, 3, or 6-Button)	Wires in Wall Box 2 (from Wall Box 1)
White (neutral)	White (neutral)
Green (ground)	Green (ground)
Black (traveler)	Black (traveler)



ON OFF OFF

Power Source

Green (ground)
Black (hot)
White (load)

Dimmer

White (load)
Red (load)
Black (hot)
Green (ground)
Blue

Wall Box #1

White (load)
Green (ground)
Black (traveler)

Wall Box #2


White (load)
Black (traveler)

2 Button Keypad

1. Wire the dimmer into Wall Box #1 by connecting together and capping with a wire nut the following wires:

Dimmer Wires	Wires in Wall Box 1	
	<i>From Light Fixture</i>	<i>To Wall Box 2</i>
White (load)	White (load)	White (load)
Red (load)		
Black (hot)	Black (hot)	None
Green (ground)	Green (ground)	Green (ground)
Blue (switched hot)	None	Black (traveler)

Multi-Button Keypad Wires (2, 3, or 6 Button)	Wires in Wall Box 2 (from Wall Box 1)
White (load)	White (load)
Green (ground)	Green (ground)
Black (traveler)	Black (traveler)


 **IMPORTANT!** Not grounding this product according to the preceding may result in an installation less immune to damage caused by electrical disturbances, such as lightning, and void the warranty.

IMPORTANT : Pas les bases de ce produit selon la précédente peuvent s'ensuivre dans une installation moins immunisée pour nuire provoqué par les troubles électriques, comme la foudre et le vide la garantie.

a. For a single-gang scenario, attach the black plastic sub-plate using the provided sub-plate screws.



- 8** If you are using a Decora-style screw-on wall plate:
 - a.** Do not attach the dimmer's black plastic sub-plate
 - b.** Align the dimmer to the wall box and fasten with screws.
 - c.** Fasten the wall plate to the dimmer with screws.




10 Test the dimmer to see if it is working properly. See "Operation and Configuration" for specific instructions.


In some installation scenarios, it may be desirable to enhance the Dimmer's wireless (RF) transmission capabilities. This may be needed to overcome issues such as local interference from other devices, range considerations due to the distance between devices or the use of metallic faceplates. The Control4 Wireless Dimmer has been designed with a wire whip antenna coiled underneath the plastic button that can be extended to accommodate such scenarios. Instructions for extending the antenna are provided below.

CAUTION! Risk of Equipment Damage. This procedure enables advanced functionality and should only be performed by a competent trained installer.
PRUDENCE : Risque de Dommage d'Équipement. Cette procédure permet la fonctionnalité avancée et devrait seulement être exécutée par un installateur entraîné compétent.




A close-up photograph showing a person's fingers holding a green breadboard. A black integrated circuit (IC) is plugged into the breadboard. Several yellow jumper wires are connected to the IC and the breadboard's power rails. The background is a plain, light-colored surface.



 **NOTE:** Do not shorten or cut the antenna in any way as this may seriously impair transmission capabilities.
IMPORTANT : Ne faites pas raccourcir ou coupez l'antenne de toute façon comme cela peut sérieusement diminuer des capacités de transmission.

On initial power up, the unit will flash the Red/ Green/Blue (RGB) LEDs, which can be programmed with different states or color preferences. To set up this dimmer for use with a Control4 system, refer to your system setup documentation.

 **NOTE:** Dimmer feels warm to the touch under normal conditions.



Change Light Bulb or Fixture	Default behavior of RGB LEDs:	
To cut power to the fixture:	Top	Bottom
Pull up on the Air Gap Mechanism and fully extend (about 0.3") to cut power to the light fixture.	Not lit	Not lit
Operate Dimmer	Default behavior of RGB LEDs:	
To operate dimmer:	Top	Bottom
Turn ON (full brightness): Tap top.	Lit	Not lit
Turn OFF: Tap bottom.	Not lit	Lit
Set dimming level: Press and hold the top or bottom until the desired lighting level is reached, then release.	Lit	Not lit
Care and Cleaning		
<p>Do NOT paint dimmer or its wall plate.</p> <p>Do NOT use any chemical cleaners to clean the dimmer.</p> <p>Clean surface with a soft damp cloth as needed.</p>		

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